Serviceanweisung
Service manual

AUDIO

HCS 500

Hinweise zur Ersatzteilbestellung:
Bitte bei Ersatzteilbestellungen die genaue Bezeichnung und Ident-Nr. des Gerätes (siehe Typenschild auf der Geräterückseite) sowie Bestell-Nummer und Positions-Nummer des Ersatzteils angeben.

Hints for ordering spare parts:
For ordering of spare parts please state the exact description and ident no. of unit (see rating label on the backside of unit) as well as part no. and position no. of the required spare part.

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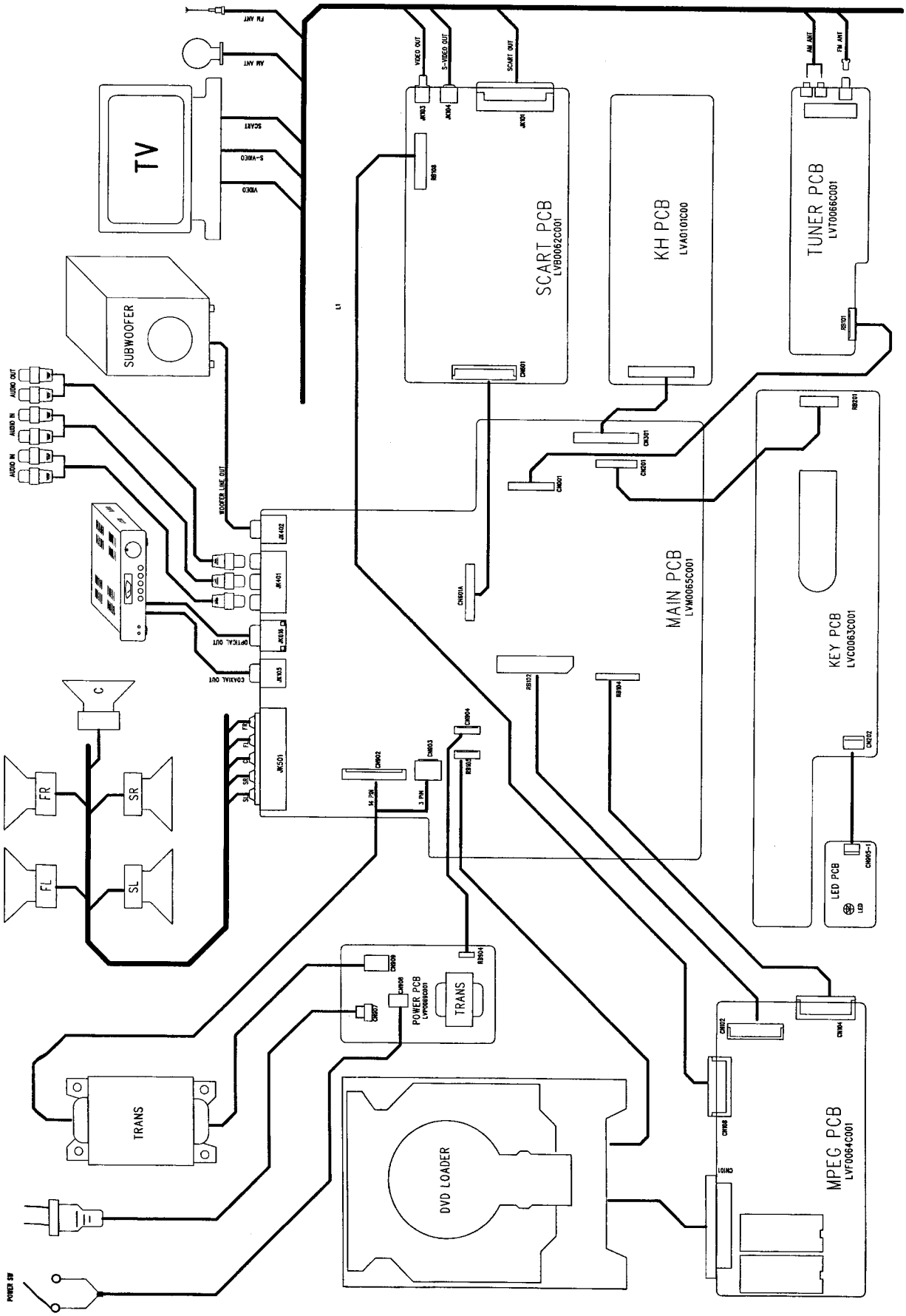
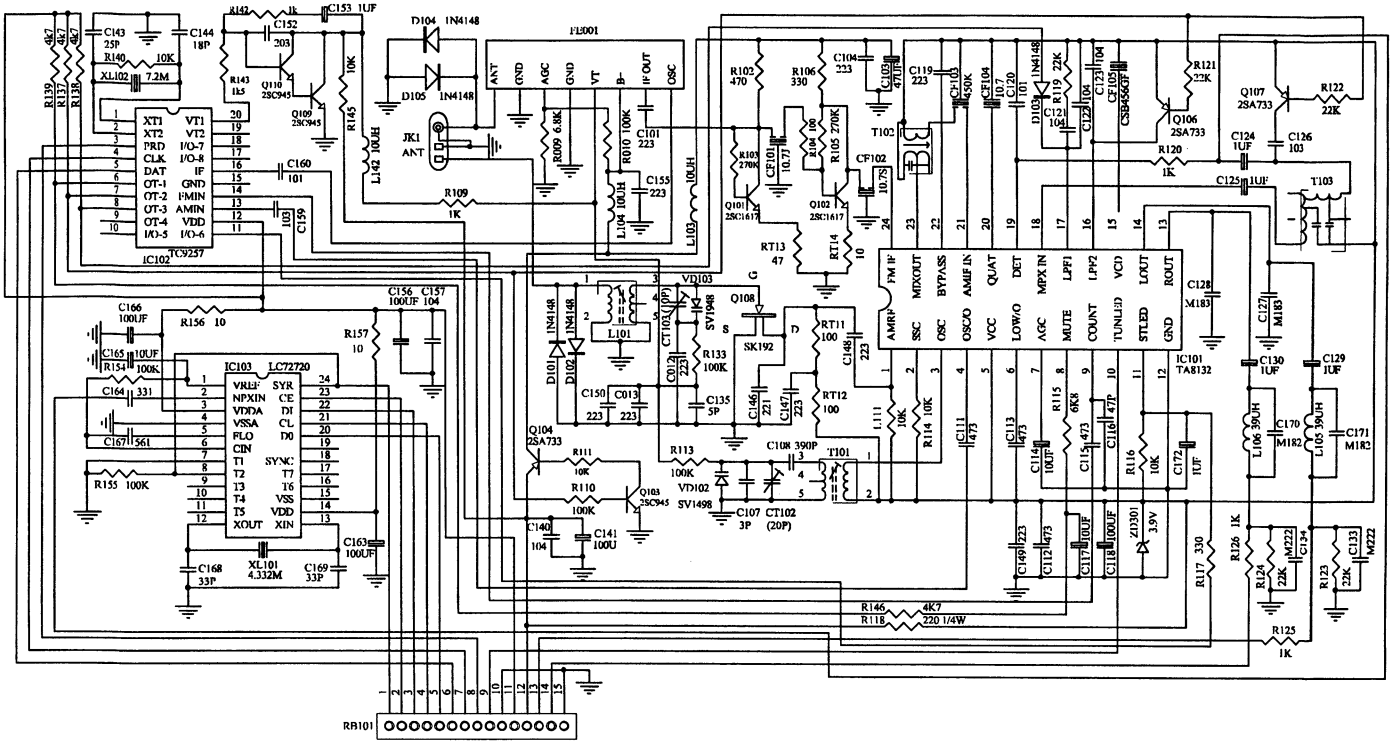
This service manual was only made for authorized specialists. For interventions by not authorized persons producer dont't take possession of liability.

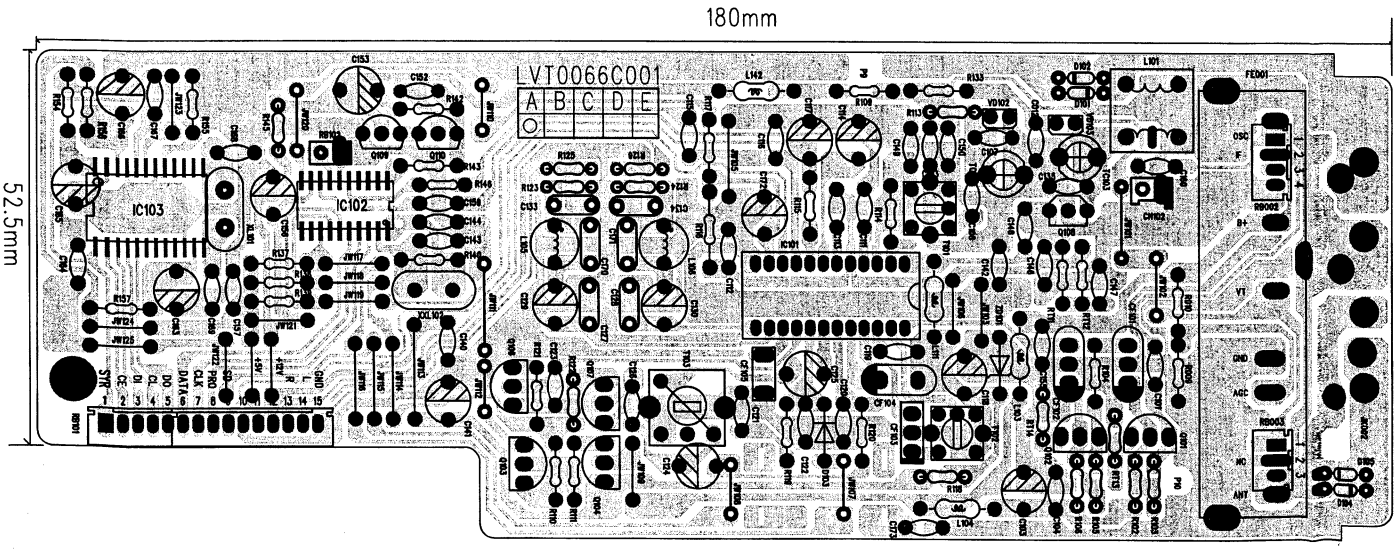
Verdrahtungsplan
Wiring diagram



Schaltbild Tuner
Schematic diagram tuner

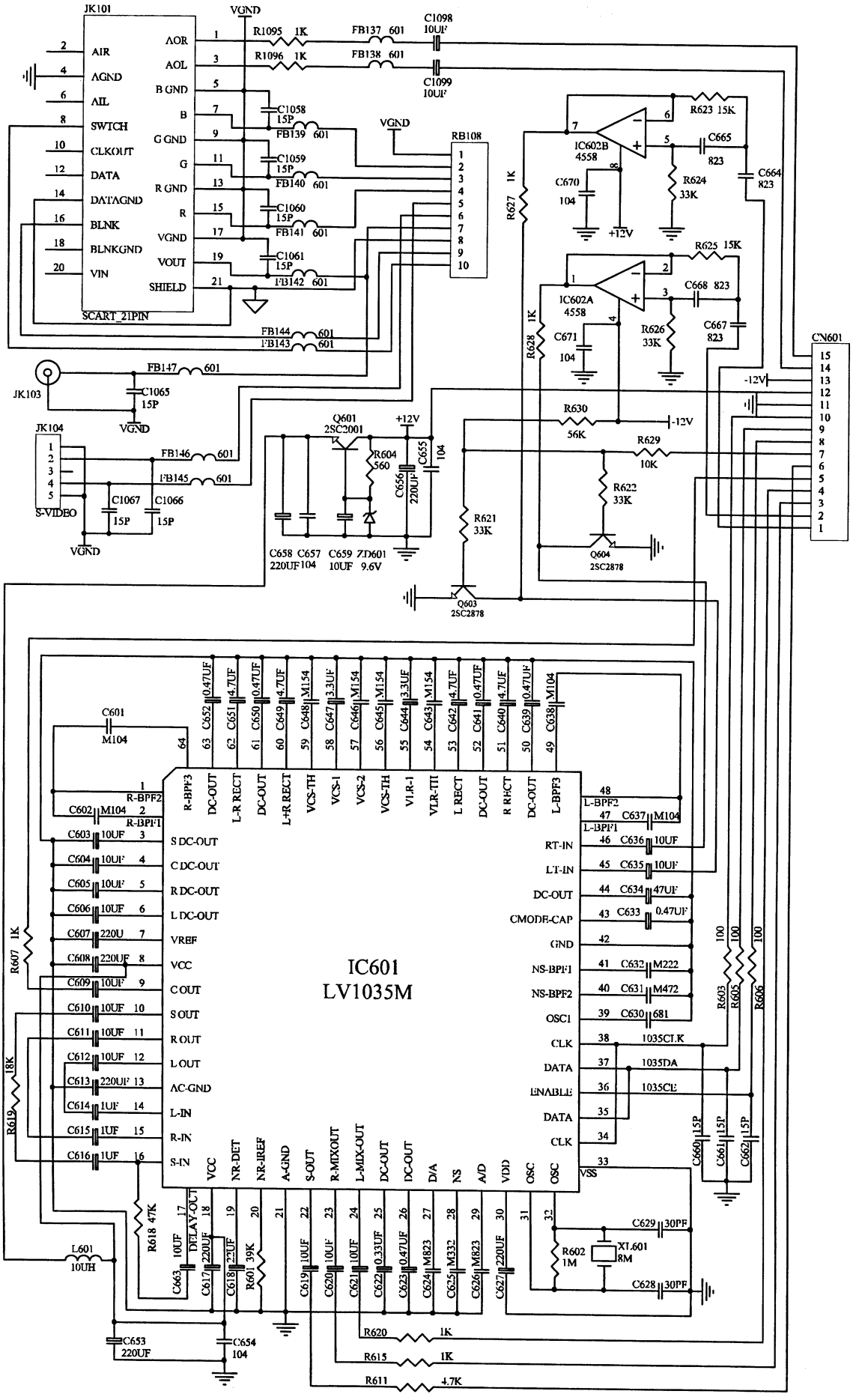


Tunerplatine
Tuner P.C. board



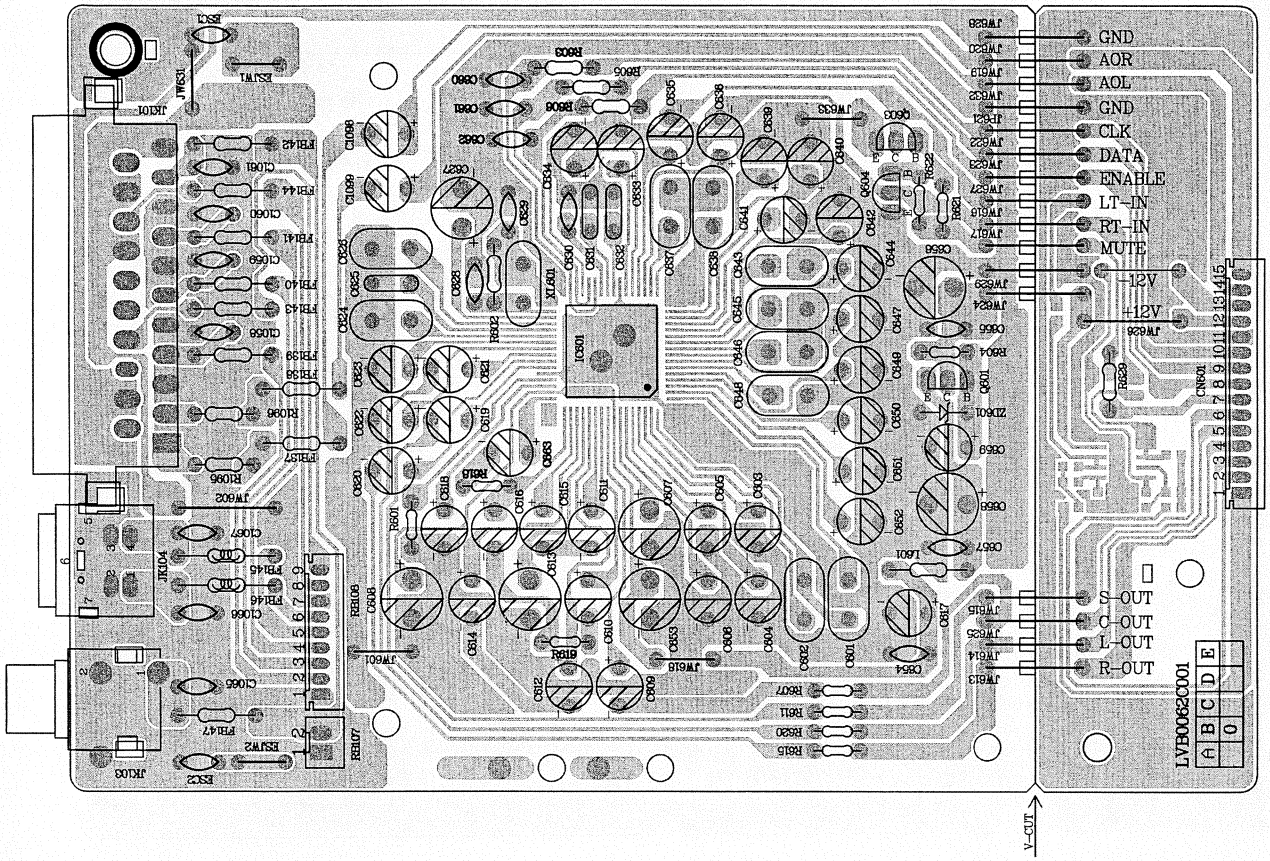
Schaltbild ProLogic/Scart

Schematic diagram ProLogic/Scart

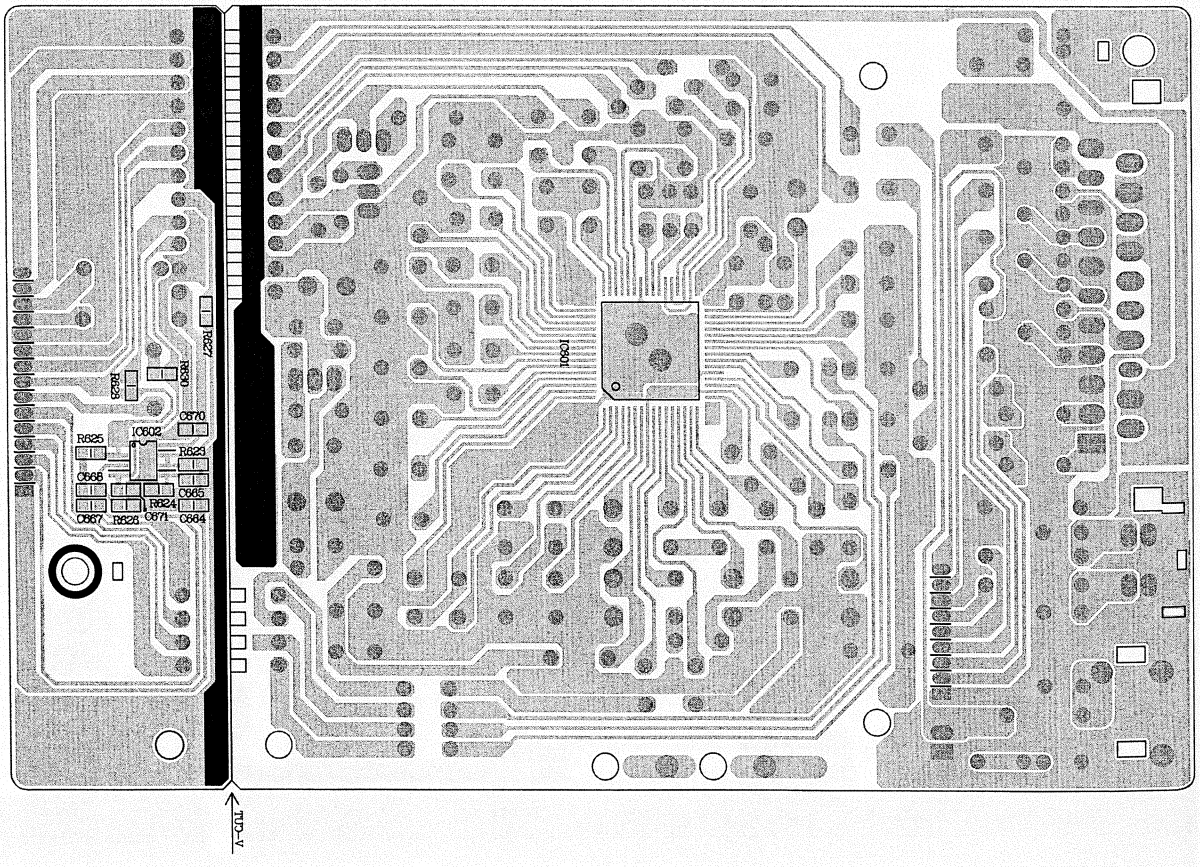


ProLogic/Scart-Platine
ProLogic/scart P.C. board

Bestückungsseite / Top view

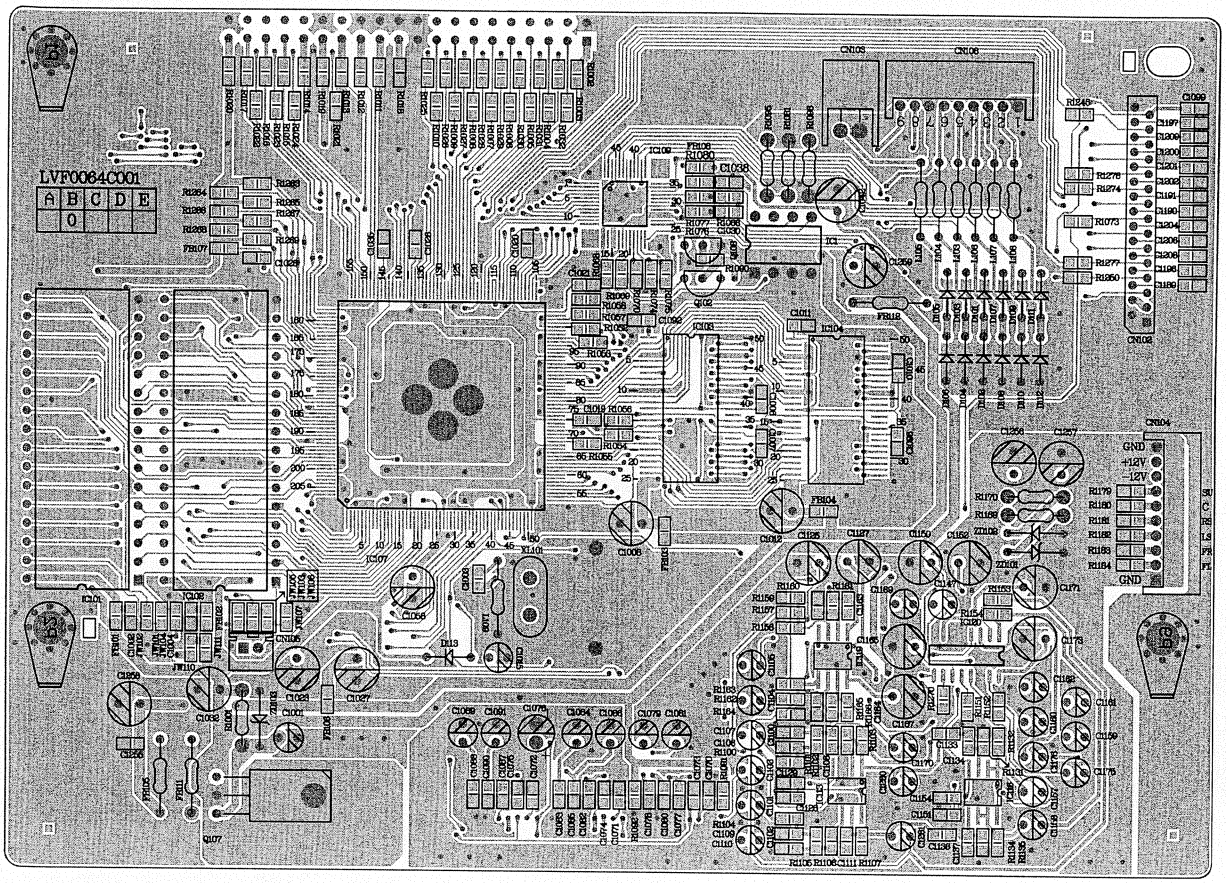


Leiterbahnseite / Bottom view

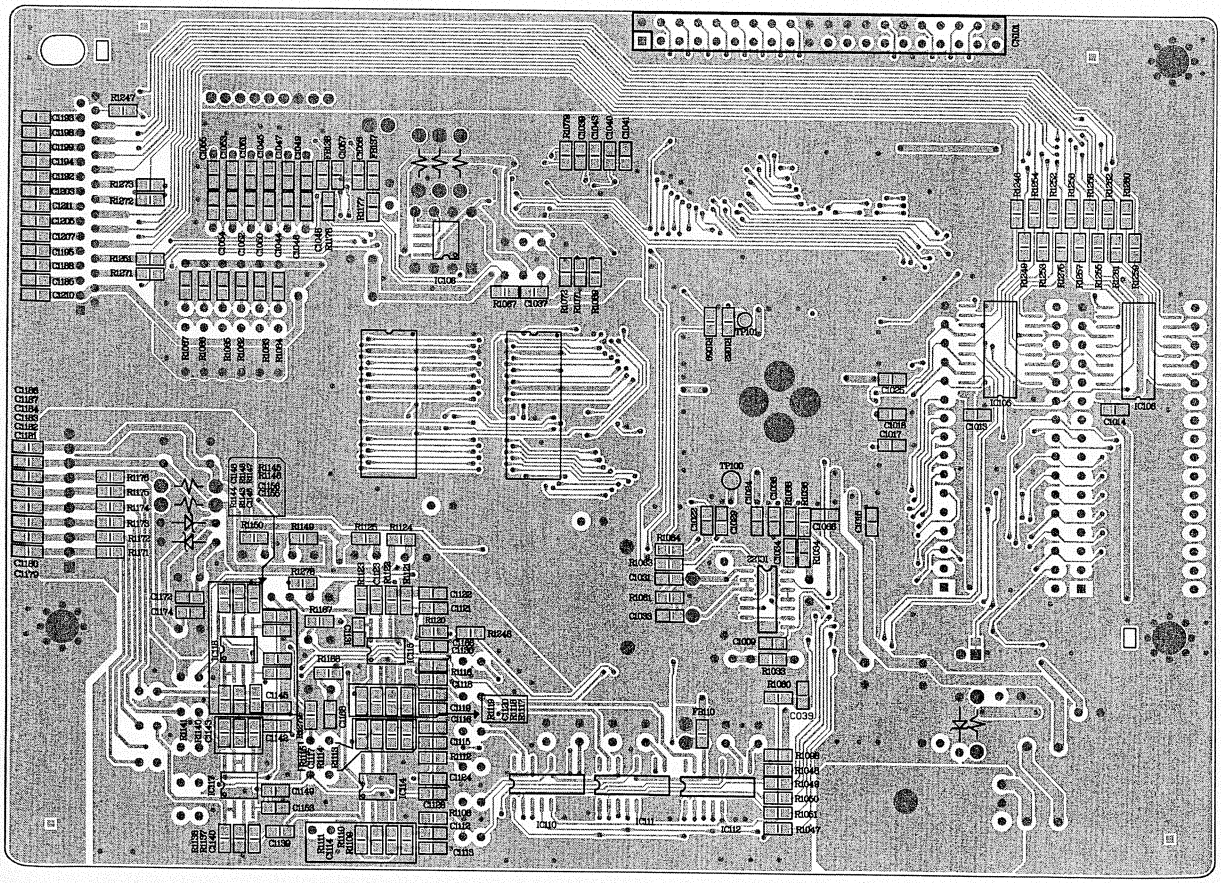


MPEG-Platine
MPEG P.C. board

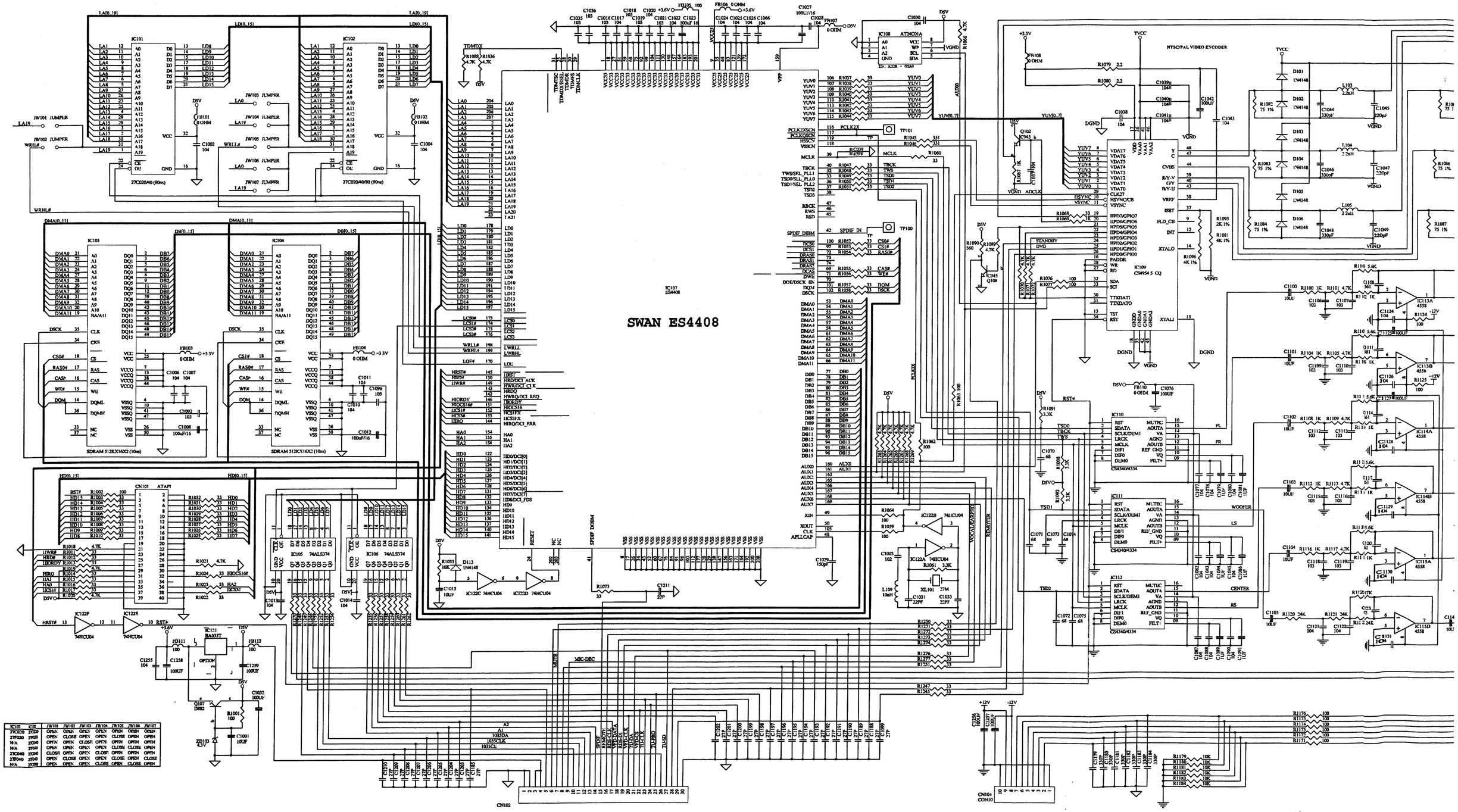
Bestückungsseite / Top view



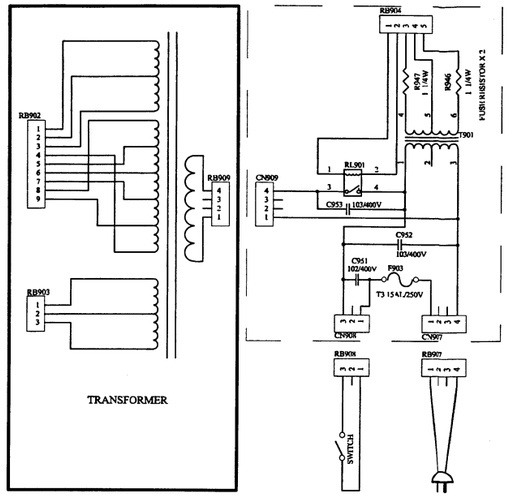
Leiterbahnseite / Bottom view



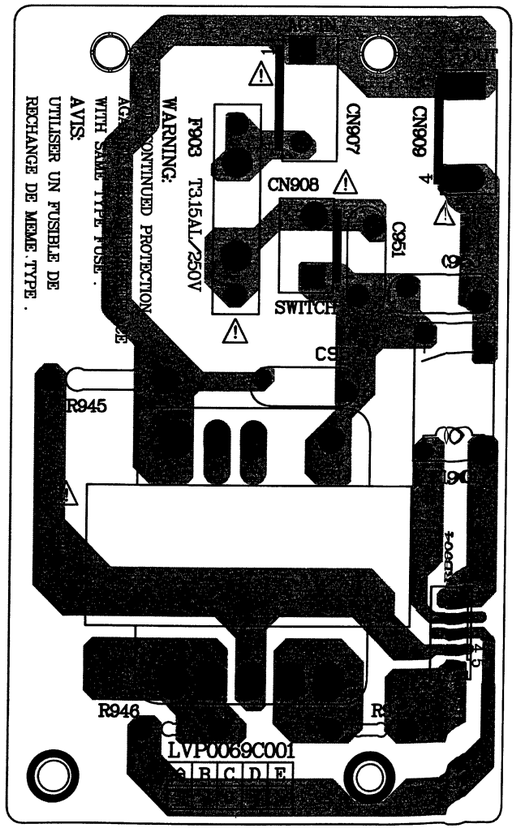
Schaltbild MPEG
Schematic diagram MPEG



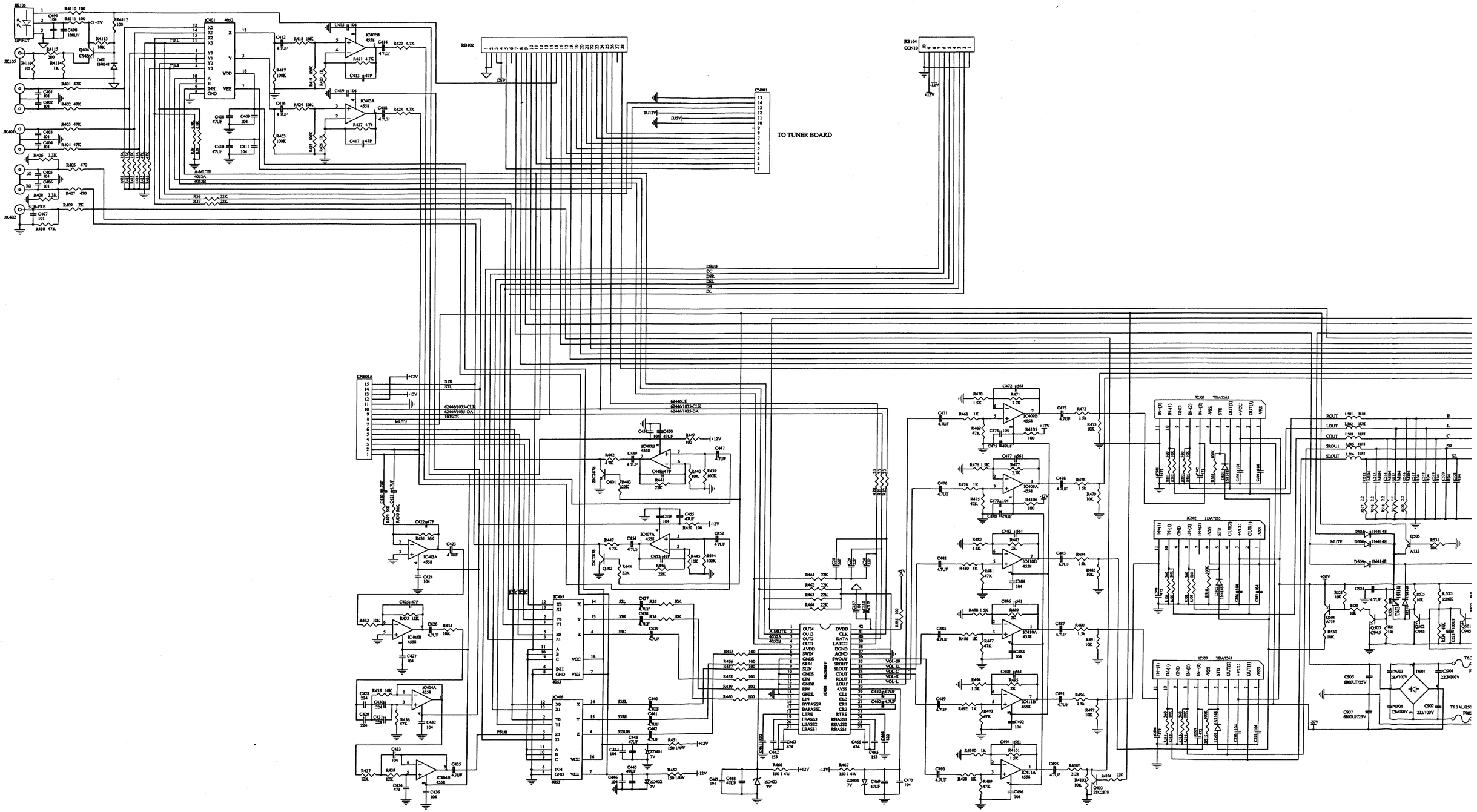
Schaltbild Netzteil
Schematic diagram power supply



Netzteilplatine
Power P.C. board



Schaltbild Hauptplatine
Schematic diagram main board

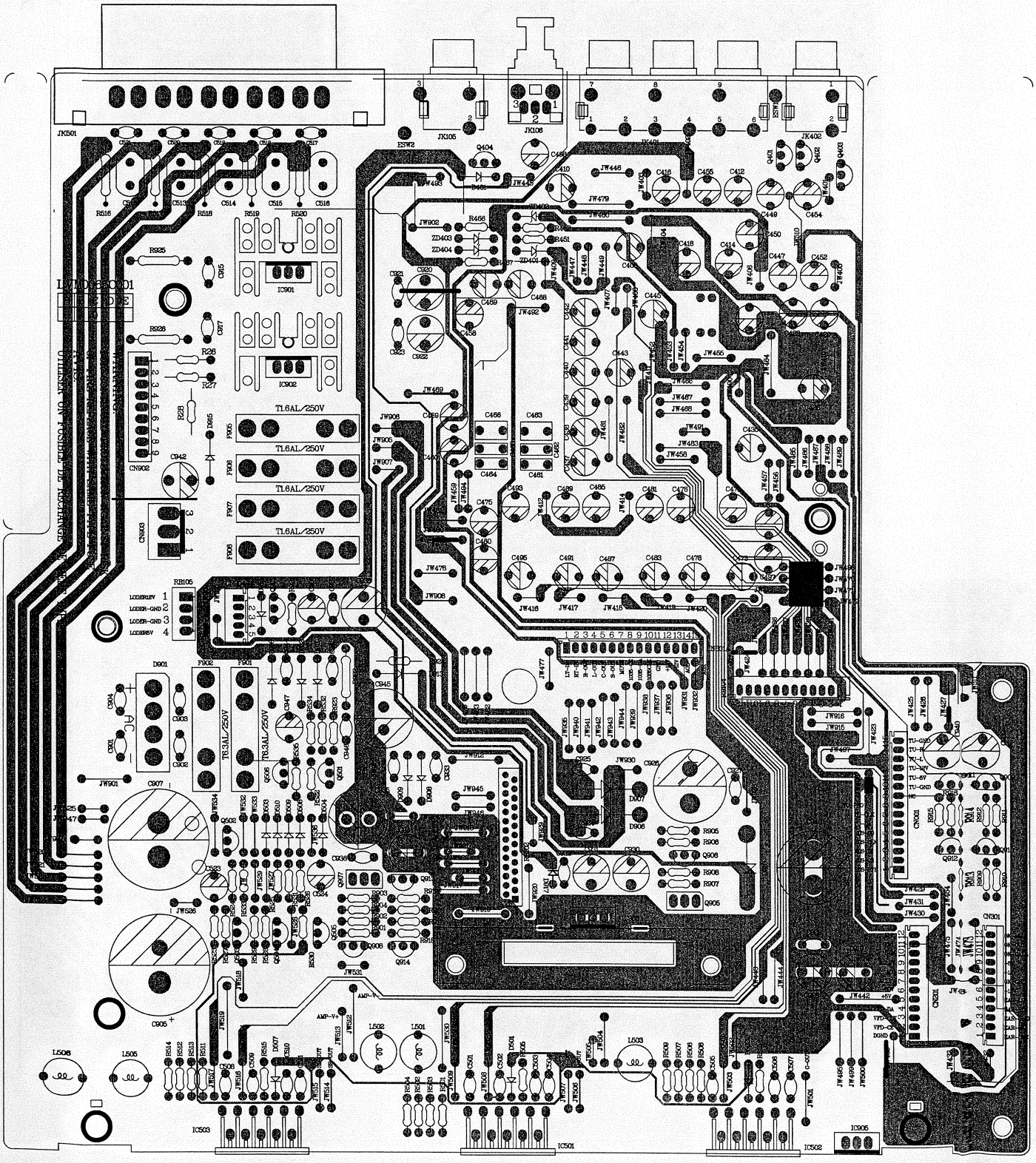


TO TUNER BOARD

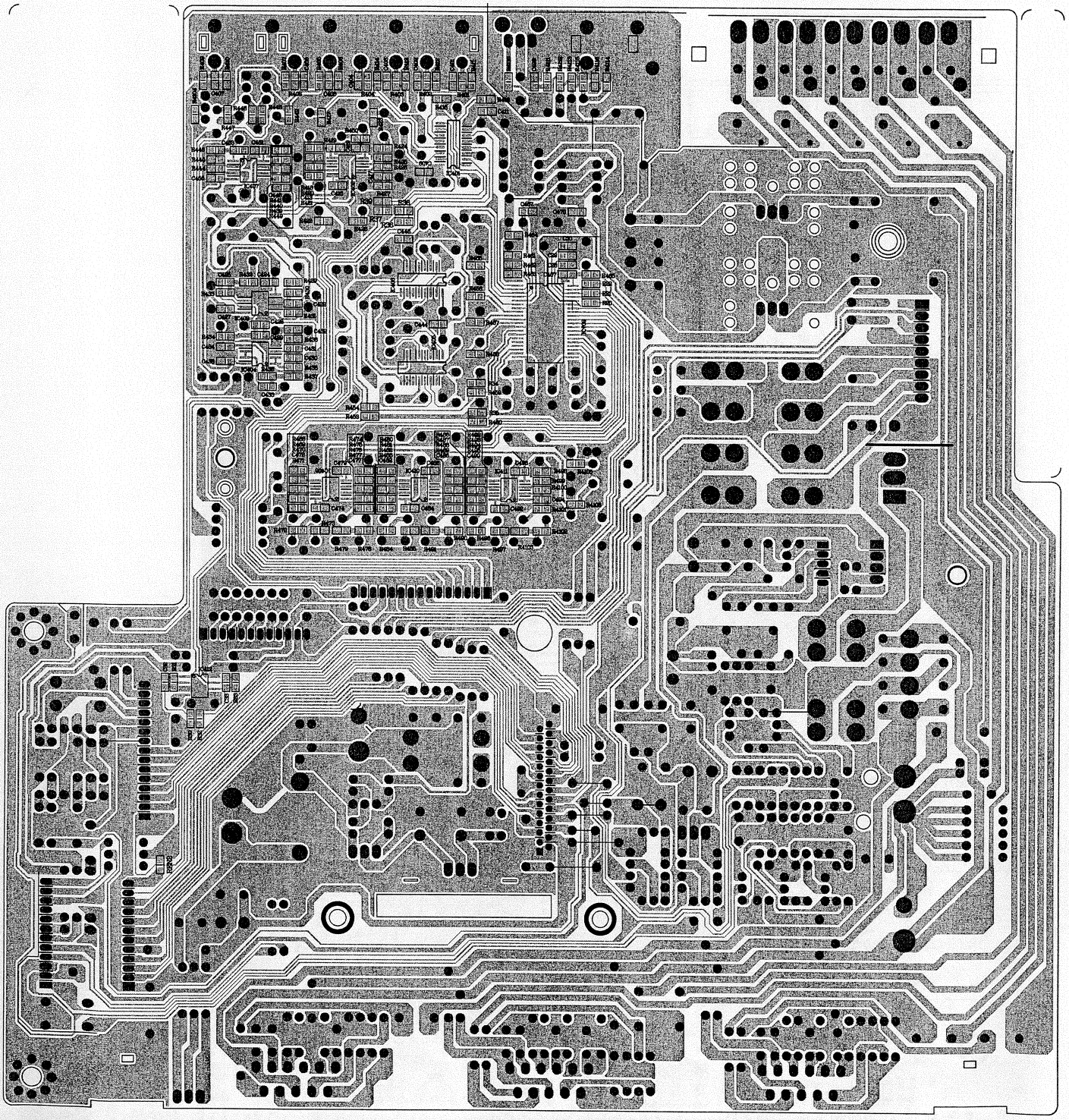
TO LOADER

Hauptplatine
Main P.C. board

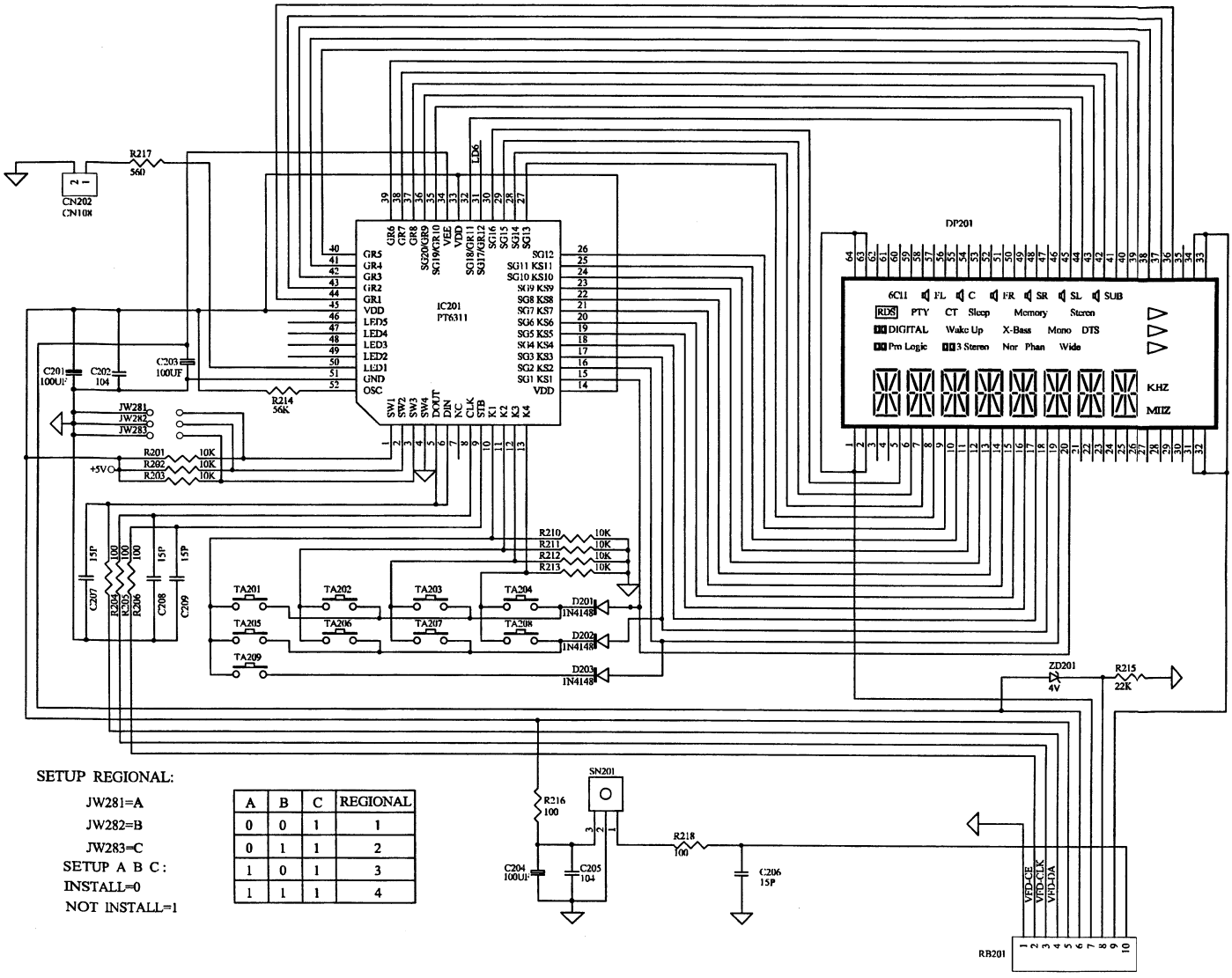
Bestückungsseite / Top view



Leiterbahnseite / Bottom view

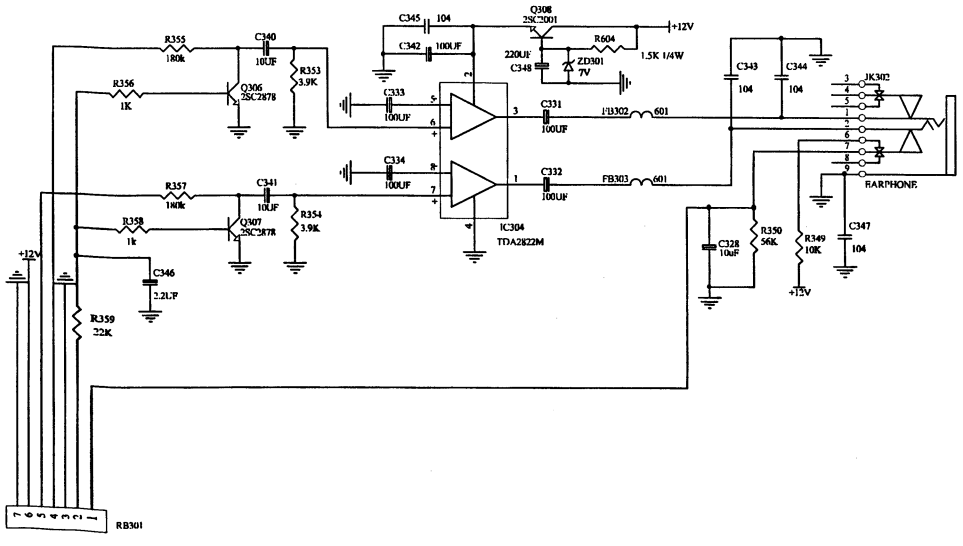


Schaltbild Bedienteil
Schematic diagram control

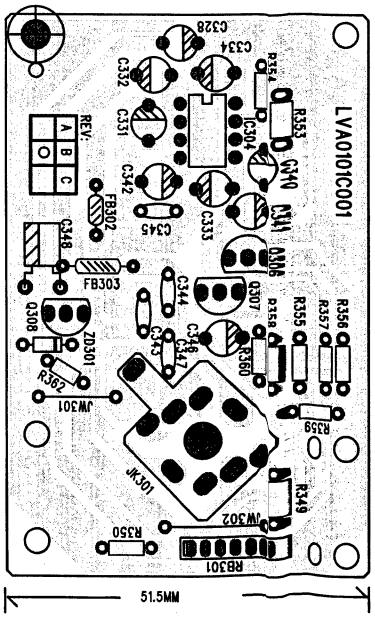


A	B	C	REGIONAL
0	0	1	1
0	1	1	2
1	0	1	3
1	1	1	4

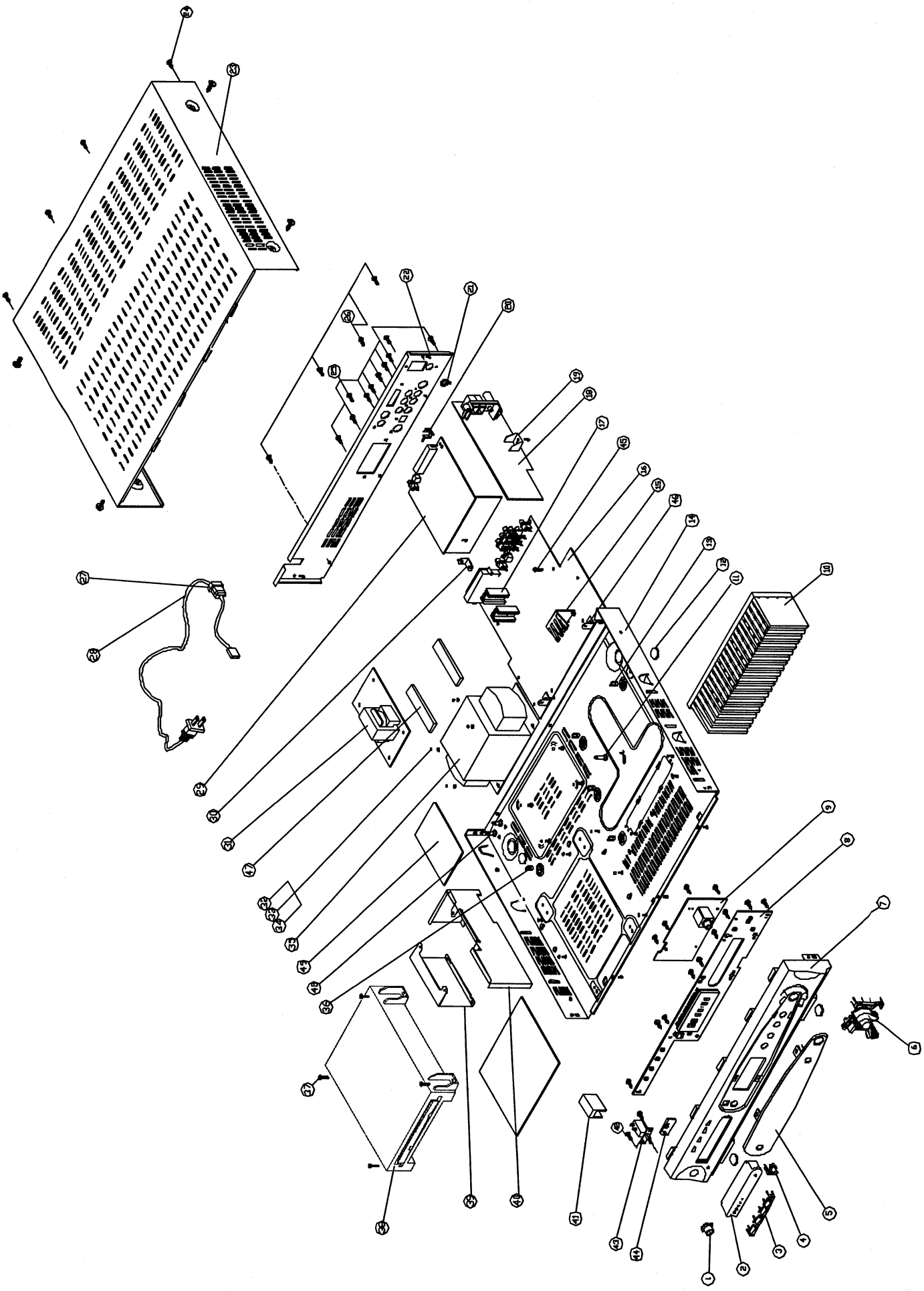
Schaltbild Kopfhörerplatine
Schematic diagram phone



Kopfhörerplatine
Phone P.C. board



Explosionsdarstellung
Exploded view



Ersatzteilliste Gehäuse und sonstige Teile
Spare parts list housing and other parts

Best.-Nr. Part no.	Bezeichnung	Description	Pos.
01 089 04	Bedienunsanleitung deutsch	Instruction book german	
01 089 08	Bedienungsanleitung D-GB-F-NL-I-E	Instruction book D-GB-F-NL-I-E	
01 130 14	Servicanweisung HCS 500	Service manual HCS 500	
01 130 13	Geber RC 185	Remote control ass'y DR3.1	Beipack
01 083 38	Rahmenantenne AM	Loop antenn ass'y	Beipack
01 089 52	Faltkarton HCS 500 Gerät	Gift box HCS 500 main unit	
01 089 55	Styropor-Verp. HCS 500 links	Polyform (L)	
01 089 56	Styropor-Verp. HCS 500 rechts	Polyform (R)	
01 089 54	Styropor-Verp. HCS 500 (Platten)	Polyform	
01 130 82	Gehäusedeckel	Top cabinet	23
01 130 83	Frontblende	Front cabinet hi-ps silver	7
01 130 84	Blende DVD-Fach	DVD door silver	2
01 130 85	Blende Display	Display lens	5
01 130 86	Knopf Netzschalter	Power key ABS silver	1
01 130 87	Tastenblock Skip/Stop/Play	Function key2	3
01 130 88	Taste Open/Close	Open/Close key	4
01 130 89	Tastenblock Source/Vol/Select	Function key1	6
01 130 90	Gummifuß (Weiss)	Rubber dia 14x2mm white	12
01 130 91	Netztrafo 230V/50Hz S2x3	Transformer 230V/50Hz	35
01 130 92	Netzkabel VDE 1980 schwarz	Line cord VDE 1980 BLK	28
01 130 93	Netzkabel VDE 1830 UK	Line cord VDE 1830 UK	28
01 130 94	Netzschalter	Switch push power	43
01 130 95	DVD-Mechanik kpl. DSL-710A	DVD loader DSL-710A	38

* Die DVD-Mechanik ist nur komplett lieferbar

* DVD loader is only available as complete unit

Ersatzteilliste Surround System
Spare parts list surround system

Best.-Nr. Part no.	Bezeichnung	Description	Pos.
00 771 09	HCS 500 Front-Lautsprecher	HCS 500 Front speaker	2x
00 771 10	HCS 500 Center-Lautsprecher	HCS 500 Center speaker	1x
00 771 11	HCS 500 Rear-Lautsprecher	HCS 500 Rear speaker	2x
00 771 12	HCS 500 Subwoofer	HCS 500 Subwoofer	1x
00 673 23	Scartkabel 1,0m	Scart cable 1.0m	
01 131 22	Cinchkabel 1,2m gelb	RCA cable 1.2m yellow	
01 131 23	Cinchkabel 3,0m schwarz	RCA cable 3.0m black	
01 075 74	Cinchkabel 1,2m rot/weiss	RCA cable 1.2m red/white	
01 131 24	Lautspr.-Kabel rot/sw 5,0m	Con/wire red/black 5.0m	
01 075 77	Lautspr.-Kabel blau/sw 3,0m	Con/wire blue/black 3.0m	
01 131 25	Lautspr.-Kabel grau/sw 10,0m	Con/wire grey/black 10.0m	
01 089 53	Faltkarton HCS 500 LS	Gift box HCS 500 SPK.	
01 089 57	Styropor-Verp. LS HCS 500 oben	Polyfoam top	
01 089 58	Styropor-Verp. LS HCS 500 unten	Polyfoam bottom	

Ersatzteilliste elektrische Teile
Spare parts list electrical parts

Best.-Nr. Part no.	Bezeichnung	Description	Pos.
01 130 96	**Bedienteilplatine**	**Control PCB assy**	8
01 130 97	IC PT 6311 (PTC)	IC PT 6311 (PTC)	IC 201
01 130 98	IR-Empfaenger IRM-8605-M	IR receiver IRM-8605-M	SN 201
00 237 97	Zenerdiode 4,1-4,3V ½W	Diode zener 4,1-4,3V ½W	ZD 201
00 012 41	Diode 1 N 4148	Diode 1 N 4148	D 201-203
01 130 99	VFD-Display	VFD	DP 201
01 062 61	Taster	Tact switch	TA 201-209
01 131 00	**Kopfhörerplatine**	**Phone PCB assy**	9
01 072 76	IC TDA 2822	IC TDA 2822	IC 304
12 744 31	Transistor 2 SC 2878 A	Transistor 2 SC 2878A	Q 306,307
12 752 61	Transistor 2 SC 2001 L	Transistor 2 SC 2001 L	Q 308
01 131 01	Zenerdiode 6,9-7,2V ½W	Diode zener 6,9-7,2V ½W	ZD 301
01 131 02	Klinkenbuchse 6,3mm	Phone jack	JK 301
01 131 03	**Hauptplatine**	**Main PCB assy**	16
00 608 13	IC TC 4052 BFN chip	IC TC 4052 BFN chip	IC 401
01 027 63	IC JRC 4558 D	IC JRC 4558 D OP AMP	IC 402-404,407
00 385 99	IC TC 4053 BFN chip	IC TC 4053 BFN chip	IC 405,406
01 131 04	IC M 6244 FP	IC M 6244 FP	IC 408
01 027 63	IC JRC 4558 D	IC JRC 4558 D OP AMP	IC 409-411
01 039 91	IC TDA 7265 SGS	IC TDA 7265 SGS	IC 501-503
12 878 58	IC 7812 12V 1A Regulator	IC 7812 12V 1A Regulator	IC 901
00 510 99	IC 7912 Regulator	IC 7912 Regulator	IC 902
00 373 61	IC AN 7806	IC AN 7806	IC 903
01 131 05	IC BA 05T ROHM	IC BA 05T ROHM	IC 905
00 577 49	Transistor 2 SB 772 P/Q	Transistor 2 SB 772 P/Q	Q 905,907
12 744 31	Transistor 2 SC 2878 A	Transistor 2 SC 2878 A	Q 401-403
12 752 60	Transistor 2 SC 945 P	Transistor 2 SC 945 P	Q 404,501-503
12 631 42	Transistor 2 SA 733 Q	Transistor 2 SA 733 Q	Q 504
12 752 60	Transistor 2 SC 945 P	Transistor 2 SC 945 P	Q 506
12 744 31	Transistor 2 SC 2878 A	Transistor 2 SC 2878 A	Q 901,906,908
12 631 42	Transistor 2 SA 733 Q	Transistor 2 SA 733 Q	Q 909,911,913
12 752 60	Transistor 2 SC 945 P	Transistor 2 SC 945 P	Q 910,912,916
01 131 01	Zenerdiode 6,9-7,2V ½W	Diode zener 6,9-7,2V ½W	ZD 401-404
01 075 98	Gleichrichter KBU8B 8A 100V	Rectifier KBU8B 8A 100V	D 901
01 043 21	Diode 1 N 5401	Diode 1 N 5401	D 906,907,910
00 578 41	Diode 1 N 4001	Diode 1 N 4001	D 908-913
00 578 41	Diode 1 N 4001	Diode 1 N 4001	D 915,916
00 447 22	Diode 1 N 5392	Diode 1 N 5392	D 917
00 012 41	Diode 1 N 4148	Diode 1 N 4148	Diverse
01 008 78	Sicherungswiderstand 1R ¼W	Fuse resistor 1R ¼W	R 26-28
00 617 05	Widerstand 22R ½W	Resistor 22R ½W	R 922
00 464 79	Sicherungswiderstand 1R ½W	Fuse resistor 1R ½W	R 925,926
00 067 54	Sicherung T 6,3A 250V	Fuse 6,3A 250V slow	F 901,902
00 108 47	Sicherung T 1,6A 250V	Fuse 1,6A 250V slow	F 905-908
01 131 06	Cinchbuchse 1-fach schwarz	RCA jack 1p black w/gend	JK 105 coax out
01 131 07	Toslink-Buchse TOTX 178 A	Tosk. jack TOTX 178 A	JK 106 optic out
01 076 02	Cinchbuchse 6-fach rot/weiss	RCA jack 6p WHTx3 REDx3	JK 401 audio
01 131 06	Cinchbuchse 1-fach schwarz	RCA jack 1P black	JK 402 woofer
01 131 08	LS-Klemmen 10-fach	SPK jack 10p W/spring	JK 501

Best.-Nr. Part no.	Bezeichnung	Description	Pos.
01 131 09	**Tunerplatine**	**Tuner PCB assy**	18
00 666 62	IC TA 8132 AN	IC TA 8132 AN	IC 101
01 062 80	IC TC 9257 F	IC TC 9257 F	IC 102
01 048 57	IC LC 72720 NM	IC LC 72720 NM	IC 103
12 687 11	Transistor 2 SC 1675 L	Transistor 2 SC 1675 L	Q 101,102
00 485 23	Transistor 2 SK 192 A-Y/GR	Transistor 2 SK 192 A-Y/GR	Q 108
12 752 60	Transistor 2 SC 945 P	Transistor 2 SC 945 P	Q 101,109,110
12 631 42	Transistor 2 SA 733 Q	Transistor 2 SA 733 Q	Q 104,106,107
00 652 42	Diode 1 SV 149 B	Diode 1 SV 149 B	VD 102,103
01 131 10	Zenerdiode 3,8-4,0V ½W	Diode zener 3,8-4,0V ½W	ZD 101
00 012 41	Diode 1 N 4148	Diode 1 N 4148	D 101-105
01 027 74	Trimm-Kondensator 3-10 PF	Cond trim 3-10 PF	TC 103
01 048 68	Quarz 4,332 MHz	Crystal 4,332 MHz	XL 101
00 483 78	Quarz 7,2 MHz	Crystal 7,2 MHz HC-49U	XL 102
00 607 16	Keramik Filter 10,7 MHz	Ceramic filter 10,7 MHz	CF 101
00 652 44	Keramik Filter CDA 10,7 MG-18A	Ceramic filter CDA 10,7 MG-18A	CF 104
01 131 11	Ant-AM-Klemmen	Ant jack	JK 002
01 057 02	Tuner FTA 4-460V	Tuner pack FTA 4-460V	FE 001
01 131 12	**ProLogic/Scart-Platine**	**Pro Logic+Scart Assy**	29
01 077 75	IC LV 1035 M	IC LV 1035 M dolb.prol.decoder	IC 601
01 027 63	IC JRC 4558 D	IC JRC 4558 D OP AMP	IC 602
12 752 60	Transistor 2 SC 2001 L	Transistor 2 SC 2001 L	Q 601
12 744 31	Transistor 2 SC 2878 A	Transistor 2 SC 2878 A	Q 603,604
00 611 86	Zenerdiode 9,1-9,5V ½W	Diode zener 9.1-9.5V ½W	ZD 601
01 131 13	Keramikschwingkreis 8 MHz	Resonator 8 MHz	XL 601
01 131 14	Scartbuchse schwarz	Scart socket black	JK 101
01 131 15	Cinchbuchse 1-fach gelb	RCA jack 1p yellow W/GND	JK 103
01 131 16	DIN Buchse S-Video	DIN jack DSW-04	JK 104
01 131 17	**Netzteilplatine**	**Power PCB assy**	31
01 008 78	Sicherungswiderstand 1R ¼W	Fuse resistor 1R ¼W	R 946,947
01 131 18	Trafo 230V/DC10V Schaltnetzteil	Transformer 230V/ DC10V	T 901
00 060 64	Sicherung T 3,15A 250V	Fuse 3,15A 250V slow	F 903
01 131 19	Relais 5VDC 40mA	Relay 5VDC 40mA	RL 901
01 131 20	**MPEG-Platine**	**MPEG PCB assy**	
01 131 21	IC F 29C5100 4T-90 PC	IC F 29C5100 4T-90 PC	IC 101-102

* Für die MPEG-Platine sind keine gelöteten Bauteile lieferbar.

* For MPEG PCB there are no soldered components available.

Achtung: Nur Original-Ersatzteile gewährleisten die Betriebssicherheit des Gerätes.
Note: Original spare parts only guaranty electrically safe operation of the set.